

October 2017

Industry Update

Food and Agribusiness



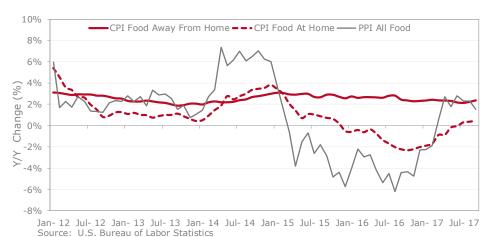
Supermarket & Restaurant Comps

- Supermarket comparable sales are in the -1.5% to -0.5% range driven by -3.5% to -3.0% volume decline and 2.0% to 2.5% price. Volume declines have averaged -2.8% YTD, while implied pricing has been +1.5% or higher in each of the last 6 periods.
- Restaurant comparable sales are in the -0.5% to +0.5% range driven by -2.5% to -2.0% volume declines and 2.0% to 2.5% price growth.
 Restaurant chains continue to struggle to win back customer traffic.

Key Demand Developments

- Growth in housing prices remain a positive to consumer balance sheets, with the Case-Shiller 20 city index rising +6.0% Y/Y in August.
- The performance of the S&P 500 was up +19% YoY, a tailwind for the consumer balance sheet.
- The consumer income statement is also boosted by job and wage growth as non-farm payrolls increased by +1.2% Y/Y in September and average hourly earnings increased +2.5% Y/Y, both tailwinds for the consumer.
- Gas prices continue to be a tailwind for the consumer; oil futures have hovered above \$55/barrel, up +17% YoY. Average prices have ticked up but remain -20% below the 5 year average.
- The Consumer Confidence Index as measured by the Conference Board was 125.9 in October +25.1 points above the Oct16 reading of 100.8.

Consumer and Producer Price Indices



Price & Food Inflation Developments

- We maintain a constructive outlook for volumes given pricing levels below 3%. The spread between restaurant and food retail pricing has narrowed -300bp from Aug16 highs.
- Restaurant pricing measured by the CPI food away from home index (CPI-FAFH) increased +2.4% in September Y/Y, which is up +20bp vs. the prior month and flat vs. the prior year.
- Food Retail pricing measured by the CPI food at home index increased +0.5% in September Y/Y, which is up +10bp vs. the prior month and up +270bp vs. the prior year.
- The Producer Price Index (PPI All Food) increased +1.5% in September Y/Y, which is down -80bp vs. the prior month and up +590bp vs. the prior year.



Grocery Department Trends: Perimeter-winning themes continue in 3Q17 as the Deli category posts strong volume gains; Dairy volumes lag as the input pricing cycle begins to impact retail.



1Q15 3Q15

1Q16

3Q16

1Q17

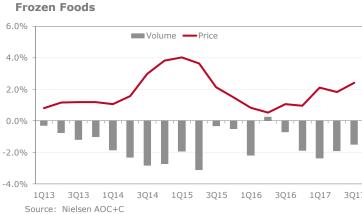
3Q17

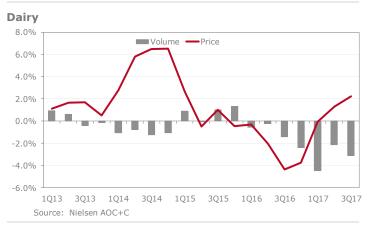
-4.0%

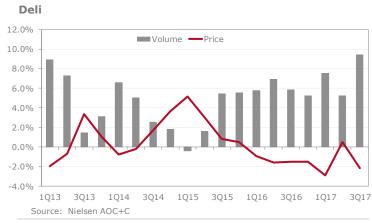
3Q13 1Q14

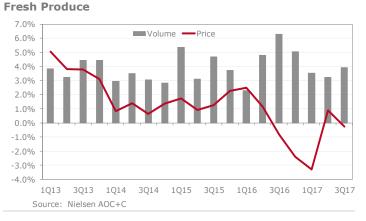
Source: Nielsen AOC+C

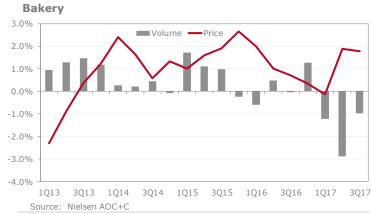
3Q14











- Dry Grocery 3Q17 price/mix increased +1.8% YoY, an increase of +50bp vs. 2Q17. Dry Grocery volumes decreased -1.0% YoY, a decrease of -60bp vs. 2Q17.
- increase of +60bp vs. 2Q17. Frozen Food volumes decreased -1.5% YoY, an increase of +40bp vs. 2Q17.

• Frozen Food 3Q17 price/mix increased +2.4% YoY, an

- Dairy 3Q17 price/mix increased +2.2% YoY, an increase of +90bp vs. 2Q17. Dairy volumes decreased -3.1% YoY, a decrease of -90bp vs. 2Q17.
- Deli 3Q17 price/mix decreased -2.2% YoY, a decrease of -270bp vs. 2Q17. Deli volumes increased +9.4% YoY, an increase of +420bp vs. 2Q17.
- Fresh Produce 3Q17 price/mix decreased -0.3% YoY, a decrease of -120bp vs. 2Q17. Fresh Produce volumes increased +3.9% YoY, an increase of +70bp vs. 2Q17.
- Bakery 3Q17 price/mix increased +1.8% YoY, a decrease of -10bp vs. 2Q17. Bakery volumes decreased -1.0% YoY, an increase of +190bp vs. 2Q17.



Food Company Margin Heat Map YoY						
Price vs. Volume	Comm	odities	Labor	Energy		
	Grain	Protein				
Constructive	Inflationary		Inflationary	Inflationary		
	Mixed	Inflationary				

Food Company Input Cost Summary: As we enter 2H17 a large portion of commodities have shown moderate inflation vs. 2016 levels.

- Economic Backdrop: Positive economic indicators continue to inch forward; USD measures are now below pre-election levels.
- Corn, Wheat & Soy Prices: 16/17 exhibited low price levels in corn, wheat, and soy on increased production, initial forecasts for 17/18 call for mixed prices at current levels on decreased production.
- Chicken: Broiler and thigh prices have remained above 2015/16 levels on strong exports and gradual tightening of cold storage supplies, while egg sets build.
- Beef: Prices are above 2016 levels as YoY inventory levels are lower and exports continue to strengthen.
- Pork: Prices are near 2015 and well above decadelow Oct16 levels as inventories trend lower, slaughter counts remain above prior year levels and exports seasonally decline.
- Packer Margin Environment: Chicken, beef and pork estimated packer ratios have all dipped below 2016 levels as cut-out values have declined in recent months.
- Seafood: Shrimp and salmon prices are in-line with 2015/16 levels on strong imports; and pollock prices are at multi-year lows.
- **Dairy:** Current prices are in-line with 2016 levels as exports level off and supplies remain ample.
- Specialty Crops: Current sugar, coffee, cotton and orange juice prices appear to have bottomed following periods of decline, while cocoa prices have been leveled off since April.
- **Forestry Products:** Strength in housing starts and remodel activity continues to support demand for framing lumber and structural panel prices.
- Crop Inputs: Fertilizer prices remain under pressure with higher than expected imports; all 4 fertilizers are near 2016 levels as Urea ticks higher.
- Energy & Labor: Global oil prices have kept energy prices in check, while we observe wage inflation gains in restaurants and supermarkets.

Key Commodity Heat Map						
Commodity	Price	Y/Y	M/M			
Corn	\$3.50	+0.2%	-1.3%			
Wheat	\$4.35	+6.4%	-2.6%			
Soybeans	\$9.76	-0.1%	+0.9%			
Broilers	\$0.89	+15.8%	-3.9%			
Cattle	\$1.18	+16.3%	+8.3%			
Hogs	\$0.63	+45.5%	+5.0%			
Milk	\$16.80	+14.6%	-4.3%			
Shrimp	\$4.70	-2.2%	+0.2%			
Salmon	\$4.85	-1.4%	+2.8%			
Nat. Gas	\$8.69	+5.1%	-2.1%			
Electricity	\$10.73	+0.3%	-2.0%			
Heating Oil	\$2.49	+17.5%	+8.8%			
Rest. Labor	\$13.47	+3.9%	0.4%			
Sup. Labor	\$13.01	+2.1%	-0.4%			
Food Labor	\$16.82	+0.6%	+0.8%			

*Monthly average corn, wheat, soybeans in \$/bu; broiler, shrimp in \$/lb; cattle, hogs, milk in,

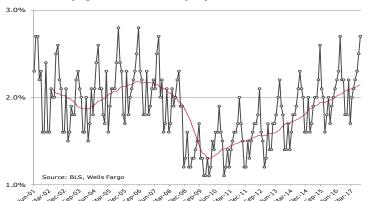
\$/cwt; salmon, cod in \$/kg; gas in \$/Mct; oil in \$/gal; electricity in \$/kWh; labor in \$/hr

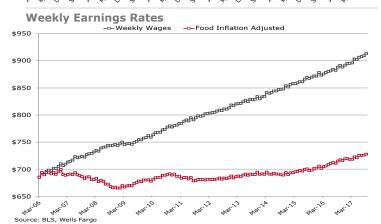
Source: USDA; BLS; IMF; IntraFish

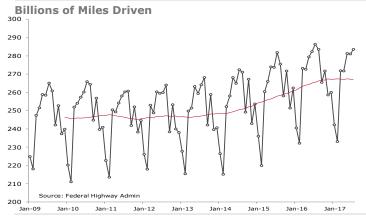


Economics: Positive economic indicators continue to inch forward; USD measures are now below pre-election levels.

Voluntary Quits as % of Employment

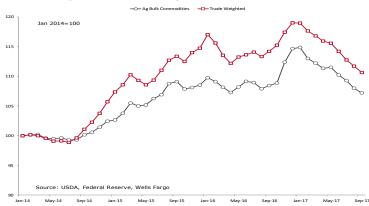




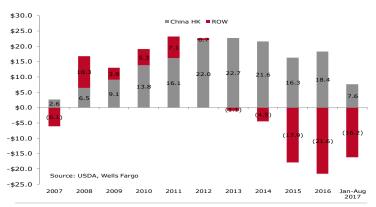


- The August 2017 voluntary quits as a percentage of employment of 2.7% was flat vs. the Aug16 reading of 2.7%. The 12 month rolling average is approaching prerecessionary levels.
- The September 2017 weekly average earnings are growing +2.8% YoY on a nominal basis; when deflated by food & beverage CPI the Sep17 average wages of \$728/week increased +1.8% vs. Sep16. The pre-recession inflation adjusted peak was \$703/week in December of 2006.
- The July 2017 monthly average miles driven of 284 billion decreased -1.0% vs. Jul16 despite gas prices and better employment continuing to provide tailwinds.

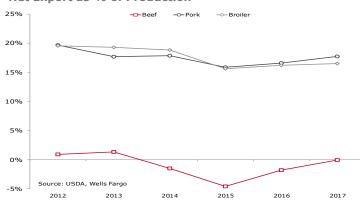
Trade Weighted Dollar vs. Ag Index



Net Trade Balance



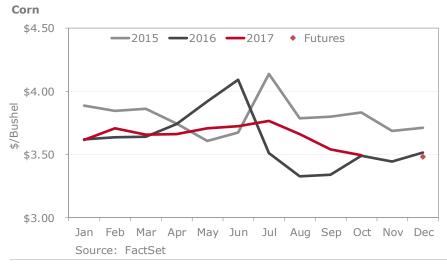
Net Export as % of Production



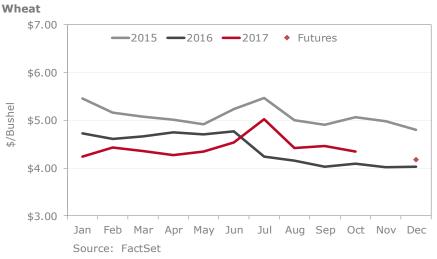
- The September 2017 trade weighted dollar index value of 110.6 vs. bulk commodity dollar index value of 104.7 represents a narrower gap when compared to the September 2016 values of 114.2 and 106.1 respectively.
- The 2017 YTD net trade balance of -\$8.6 billion represents a smaller deficit compared the Jan-Aug 2016 total of -\$9.9 billion. The 2016 full year net trade balance of -\$3.2 billion is the largest full year trade deficit since pre 2007.
- The 2017 pork and broiler markets face a stronger headwind from dollar strengthening as net exports comprise 17.7% and 16.5% percent of total production vs. -0.1% for beef.



Soft Commodities Prices: 16/17 exhibited low price levels in corn, wheat and soy on increased production, forecasts for 17/18 call for mixed prices at current levels on decreased production.

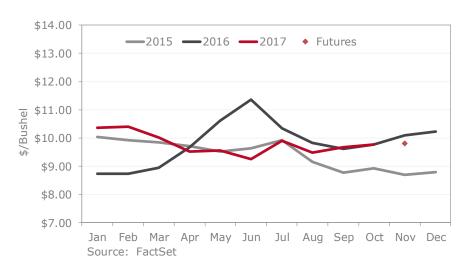


- The October monthly average corn price of \$3.50/bu decreased -1.3% vs. the prior month and increased +0.2% vs. the prior year period.
- The WASDE's (World Agricultural Supply and Demand Estimates) median average farm price projection for 2017/18 is \$3.20/bu, down -4.5% from \$3.35/bu in 2016/17. The prior estimate for 2017/18 was \$3.20/bu.
- WASDE forecasts global corn production to be 1,039 million tons in 2017/18 which is down -3.4% vs. 2016/17.



- The October monthly average wheat price of \$4.35/bu decreased -2.6% vs. the prior month and increased +6.4% vs. the prior year period.
- The WASDE U.S. median average farm price forecast for 2017/18 is \$4.60/bu, up +18.3% from \$3.89/bu in 2016/17. The prior estimate for 2017/18 was \$4.60/bu.
- WASDE forecasts global wheat production to be 751 million tons for 2017/18, which is down -0.4% vs. 2016/17.

Soybeans



- The October monthly average soybean price of \$9.76/bu increased +0.9% vs. the prior month and decreased -0.1% vs. the prior year period.
- The WASDE U.S. median average farm price forecast for 2017/18 is \$9.20/bu, down -3.2% from \$9.50/bu in 2016/17. The prior estimate for 2017/18 was \$9.20/bu.
- WASDE forecasts global soybean production at 348 million tons for 2017/18, which is down -1.0% vs. 2016/17.



Soft Commodities Fundamentals: 17/18 forecasts point to lower yields and subsequently lower production across corn, wheat, and soy with annual price estimates mixed.

Corn

	2015/2016	2016/2017E	2017/2018P	2017/2018P	M/M Change	Y/Y Change
			September	October	Forecast	Forecast
Area Planted (mm)	88.0	94.0	90.9	90.4	-0.6%	-3.8%
Area Harvested	80.8	86.7	83.5	83.1	-0.5%	-4.2%
Yield per Harvested Acre (bu)	168.4	174.6	169.9	171.8	1.1%	-1.6%
Beginning Stocks (mm bu)	1,731	1,737	2,350	2,295	-2.3%	32.1%
Production	13,602	15,148	14,184	14,280	0.7%	-5.7%
Imports	67	55	50	50	0.0%	-9.1%
Total Supply	15,401	16,940	16,585	16,625	0.2%	-1.9%
Exports	1,898	2,225	1,850	1,850	0.0%	-16.9%
Total Use	13,664	14,645	14,250	14,285	0.2%	-2.5%
Ending Stocks	1,737	2,295	2,335	2,340	0.2%	2.0%
Stocks to Use (%)	12.7%	15.7%	16.4%	16.4%	0.0%	0.7%

- The October WASDE report for the 2017/18 corn harvest year forecasts yield per acre to decrease -1.6% YoY and total supply to decrease -1.9% YoY. Ending stocks are expected to be up +2.0% YoY and stocks to use up +0.7% YoY.
- The October WASDE report estimate for total supply increased +0.2% vs. the prior month; the estimate for ending stocks increased +0.2% vs. the prior month and estimated stocks to use was unchanged.

Wheat

	2015/2016	2016/2017E	2017/2018P	2017/2018P	M/M Change	Y/Y Change
			September	October	Forecast	Forecast
Area Planted (mm)	55.0	50.2	45.7	46.0	0.7%	-8.4%
Area Harvested	47.3	43.9	38.1	37.6	-1.3%	-14.4%
Yield per Harvested Acre (bu)	43.6	52.6	45.6	46.3	1.5%	-12.0%
Beginning Stocks (mm bu)	752	976	1,184	1,181	-0.3%	21.0%
Pro ductio n	2,062	2,310	1,739	1,741	0.1%	-24.6%
Imports	113	115	150	150	0.0%	30.4%
Total Supply	2,927	3,400	3,074	3,071	-0.1%	-9.7%
Exports	775	1,035	975	975	0.0%	-5.8%
Total Use	1,952	2,241	2,141	2,111	-1.4%	-5.8%
Ending Stocks	976	1,159	933	960	2.9%	-17.2%
Stocks to Use (%)	50.0%	51.7%	43.6%	45.5%	1.9%	-6.2%

- The October WASDE report for the 2017/18 wheat harvest year forecasts yield per acre to decrease -12.0% YoY and total supply to decrease -9.7% YoY. Ending stocks are expected to be down -17.2% YoY and stocks to use down -6.2% YoY.
- The October WASDE report estimate for total supply decreased -0.1% vs. the prior month; the estimate for ending stocks increased +2.9% vs the prior month and estimated stocks to use increased +190bp.

Soybeans

	2015/2016 20	16/2017E2	2017/2018P2	017/2018P	M/M Change	Y/Y Change
			September	October	Forecast	Forecast
Area Planted (mm)	82.7	83.4	89.5	90.2	0.8%	8.2%
Area Harvested	81.7	82.7	88.7	89.5	0.9%	8.2%
Yield per Harvested Acre (bu)	48.0	52.1	49.9	49.5	-0.8%	-5.0%
Beginning Stocks (mm bu)	191	197	345	301	-12.8%	52.8%
Production	3,926	4,307	4,431	4,431	0.0%	2.9%
Imports	24	25	25	25	0.0%	0.0%
Total Supply	4,140	4,528	4,801	4,757	-0.9%	5.1%
Crushings	1,886	1,925	1,940	1,940	0.0%	0.8%
Exports	1,936	2,050	2,250	2,250	0.0%	9.8%
Total Use	3,944	4,093	4,326	4,326	0.0%	5.7%
Ending Stocks	197	435	475	430	-9.5%	-1.1%
Stocks to Use (%)	5.0%	10.6%	11.0%	9.9%	-1.0%	-0.7%

- The October WASDE report for the 2017/18 soybean harvest year forecasts yield per acre to decrease -5.0% YoY and total supply to increase +5.1% YoY. Ending stocks are expected to be down -1.1% YoY and stocks to use down -0.7% YoY.
- The October WASDE report estimate for total supply decreased -0.9% vs. the prior month; the estimate for ending stocks decreased -9.5% vs. the prior month and estimated stocks to use decreased -100bp.
- Source: USDA WASDE



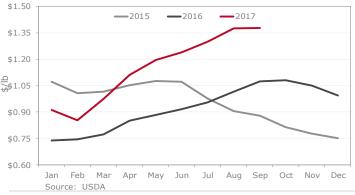
Chicken: Broiler and thigh prices have remained above 2015/16 levels on strong exports and gradual tightening of cold storage supplies, while egg sets build.



Boneless Skinless Breast Prices

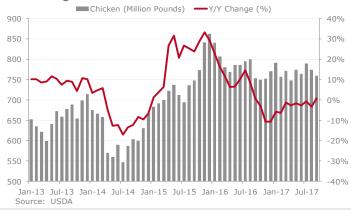


Boneless Skinless Thigh Prices

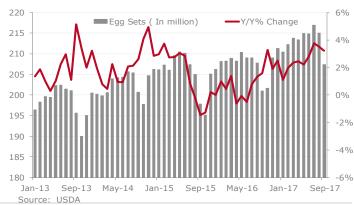


- The September USDA broiler price of \$0.888/lb decreased -3.9% vs. the prior month and increased +15.8% vs. Sep16.
- The WASDE U.S. median average price forecast for 2017 is \$0.938/lb, up +11.3% from \$0.843/lb in 2016. The prior projection for 2017 was \$0.940/lb. Total 2017 production is estimated to be 41.44mm lbs., up +1.8% vs. 2016.
- The September average breast price of \$1.214/lb decreased -9.3% vs. the prior month and -8.1% vs. Sep16. The September average thigh price of \$1.377/lb increased +0.2% vs. the prior month and increased +28.2% vs. Sep16.

Cold Storage Inventories



Egg Sets



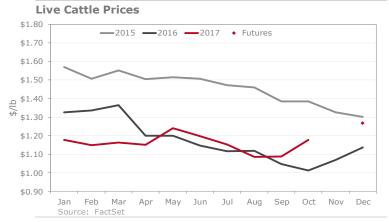
Broiler Exports

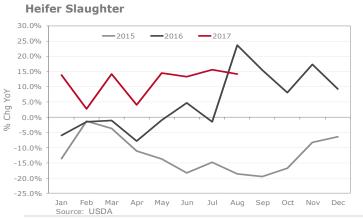


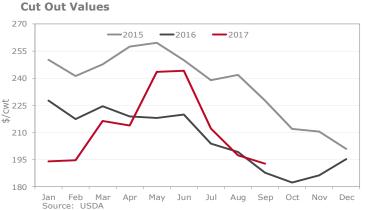
- Fundamentals: Cold storage increased +0.8% in September Y/Y, which is up +400bp vs. the prior month. Egg sets increased +3.2% in September Y/Y, which is down -30bp vs. the prior month. Exports decreased -0.5% in August Y/Y, which is down -20bp vs. the prior month.
- The September combined regional large egg price of \$1.12/dozen increased +29.0% vs. the prior month and +62.0% vs. Sep16.



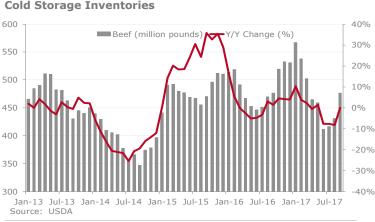
Beef: Prices are above 2016 levels as YoY inventory levels are lower and exports continue to strengthen.

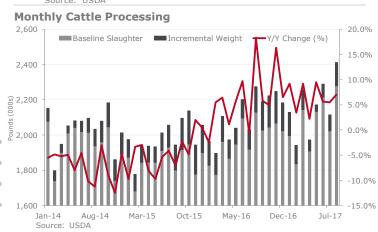








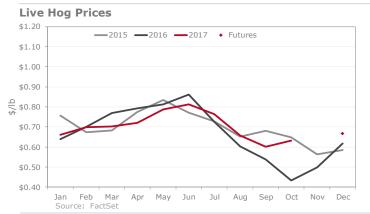


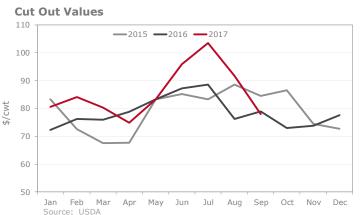


- The October cattle price of \$1.18/lb increased +8.3% vs. the prior month and increased +16.3% vs. Oct16.
- The WASDE U.S. median average price forecast for 2017 is \$119.6/cwt, down -1.0% from \$120.86/cwt in 2016.
 The prior projection for 2017 was \$119.0/cwt. Total 2017 production is estimated to be 26.5mm lbs., up +5.3% vs. 2016.
- The September average cut-out value decreased -2.4%
 vs. the prior month and increased +2.7% vs. Sep16.
- Fundamentals: Cold storage decreased -0.1% in September Y/Y, which is up +820bp vs. the prior month. Heifer slaughter numbers increased +14.2% in August Y/Y, which is down -140bp vs. the prior month. Exports increased +15.7% in August Y/Y, which is up +490bp vs. the prior month. Cattle head processed increased +7.1% in August Y/Y which is up +160bp vs. the prior month. Slaughter weight data indicates that heavier weights contributed to +5.5% of total slaughter volume, which decreased -90bp vs. the prior year period.

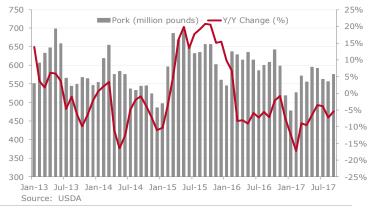


Pork: Prices are near 2015 and well above decade-low Oct16 levels as inventories trend lower, slaughter counts remain above prior year levels and exports seasonally decline.

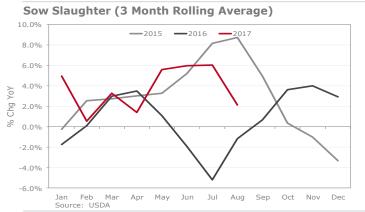


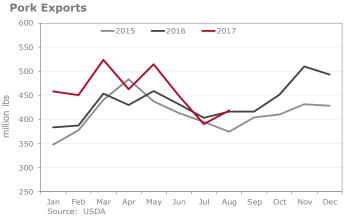


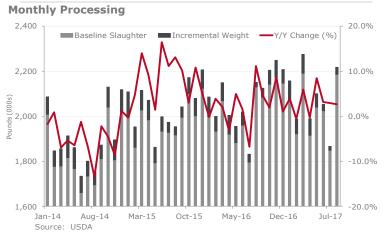
Cold Storage Inventories



- The October average hog price of \$0.63/lb increased +5.0% vs. the prior month and increased +45.5% vs.
 Oct16
- The WASDE U.S. median average price forecast for 2017 is \$49.0/cwt, up +6.2% from \$46.2/cwt in 2016. The prior projection for 2017 was \$50.5/cwt. Total 2017 production is estimated to be 25.8mm lbs., up +3.6% vs. 2016.
- The September average cut-out value decreased -15.0% vs. the prior month and decreased -1.3% vs. Sep16.





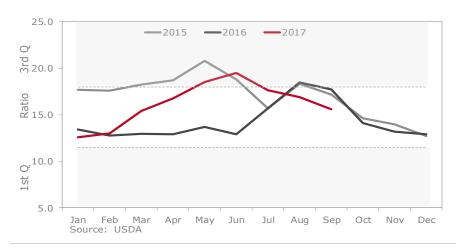


• Fundamentals: Cold storage decreased -5.5% in September Y/Y, which is up +180bp vs. the prior month. Sow slaughter increased +2.1% in August Y/Y, which is down -390bp vs. the prior month. Exports increased +0.4% in August Y/Y, which is up +370bp vs. the prior month. Hogs processed increased +2.6% in August Y/Y which is down -30bp vs. the prior month. Slaughter weight data indicates that heavier weights contributed to +1.4% of total slaughter volume, which is up +40bp vs. the prior year period.



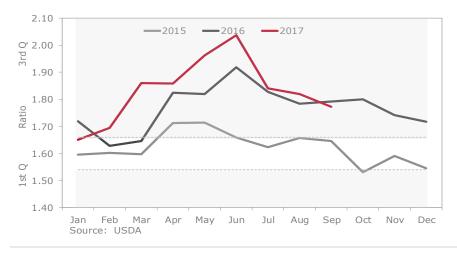
Packer Margin Environment: Chicken, beef and pork estimated packer ratios have all dipped below 2016 levels as cut-out values have declined in recent months.

Chicken



- The September USDA monthly average chicken breast price to feed cost ratio of 15.6 decreased -1.3 vs. the prior month and decreased -2.1 vs. the prior year period.
- The 10 year average ratio of 14.9 places the Sep17 result in the middle 50% of the 2007-2017 monthly results

Beef



- The September USDA monthly average beef cut-out to live cattle ratio of 1.77 decreased -0.05 vs. the prior month and decreased -0.02 vs. the prior year period.
- The 10 year average ratio of 1.62 places the Sep17 result in the top 25% of the 2007-2017 monthly results.

Pork

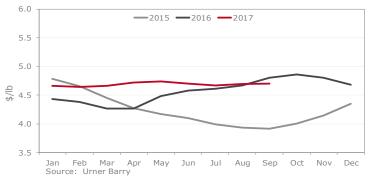


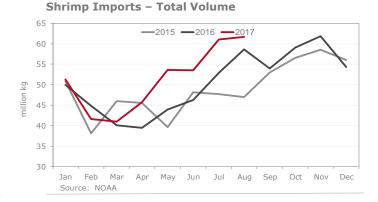
- The September USDA monthly average pork cut-out to live hog ratio of 1.30 decreased -0.09 vs. the prior month and decreased -0.17 vs. the prior year period.
- The 10 year average ratio of 1.09 places the Sep17 result in the top 25% the 2007-2017 monthly results.



Seafood: Shrimp and salmon prices are in-line with 2015/16 levels on strong imports; and pollock prices are at multi-year lows.



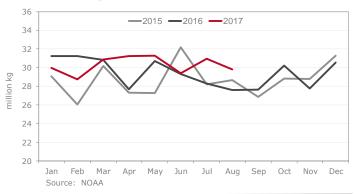




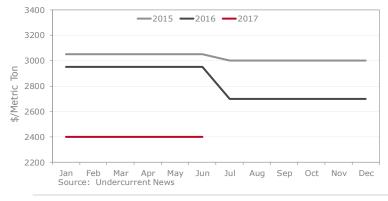
Urner Barry Fresh Farmed Salmon Index



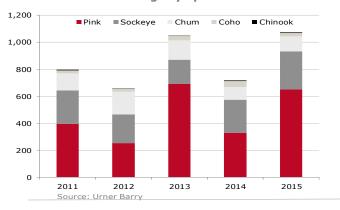
Salmon Imports - Total Volume



Alaskan Pollock



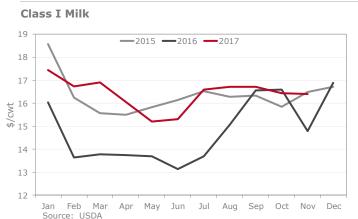
Wild Alaskan Landings by Specie



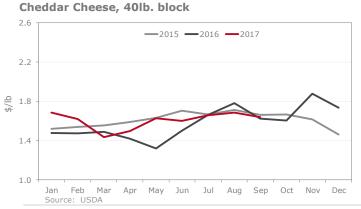
- The September Urner Barry farm-raised white shrimp price of \$4.70/lb increased +0.2% vs. the prior month and decreased -2.2% vs. the prior year period.
- The September Urner Barry fresh farmed salmon price of \$4.85/lb increased +2.8% vs. the prior month and decreased -1.4% vs. the prior year period.
- The Undercurrent News 1H17 Alaskan Pollock price of \$2400/metric ton decreased -11.1% vs. the 2H16 price of \$2700/metric ton. 2017 Prices remained under pressure due to increased supply levels from remaining 2016 stock and are the lowest season A price levels on record since 2005.
- The August NOAA measure of total US shrimp imports was 61.7mm kg, an increase of +1.0% vs. the prior month and an increase of +5.2% vs. Aug16.
- The August NOAA measure of total US salmon imports was 29.8mm kg, a decrease of -3.8% vs. the prior month and an increase of +7.9% vs. Aug16.
- 2015 wild Alaskan landings by specie increased +49.5% vs. 2014 and was slightly above 2013 total landings. The increase in landings was led by a +98% rise in pink salmon.



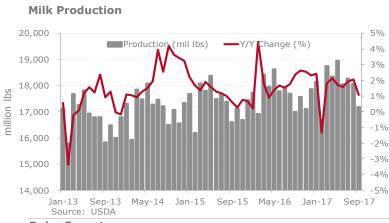
Dairy: Current prices are in-line with 2016 levels as exports level off and supplies remain ample.

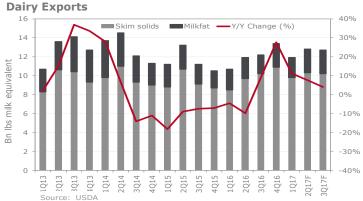


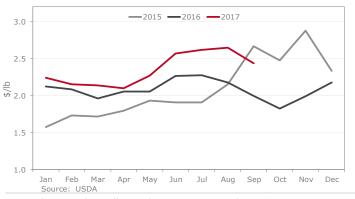
Class III Milk —2015 **—**2016 **—**2017 Futures 17 16 \$/cwt 15 14 13 12 Jan Feb Mar Apr May Jun Jul Aug Sep Oct



- The November USDA class I milk price of \$16.41/cwt decreased -0.2% vs. the prior month and increased +11.0% vs. Nov16. The September average class III milk price of \$16.36/cwt decreased -1.3% vs. the prior month and decreased -0.2% vs. Sep16.
- The WASDE U.S. median average price forecast for 2017 is \$17.80/cwt, up +9.2% from \$16.30/cwt in 2016. The prior projection for 2017 was \$17.90/cwt. Total 2017 production is estimated to be 216.2 bn lbs., up +1.8% vs. 2016.
- The September USDA average cheese price of \$1.64/lb decreased -2.9% vs. the prior month and increased +0.9% vs. Sep16.





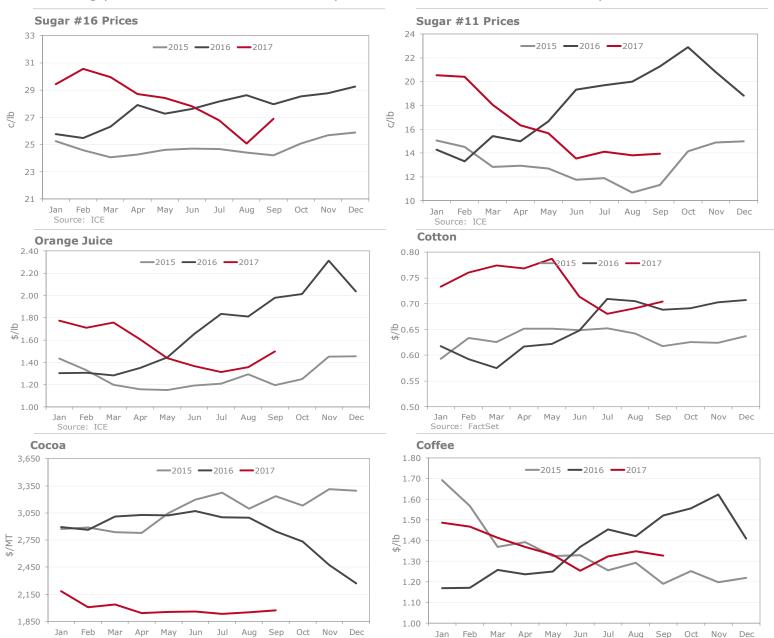


Butter Prices Grade AA

- Fundamentals: Milk production increased +1.1% in August Y/Y, which increased +100bp vs. the prior month. The milk cow herd size was up +70bp vs. the prior year period. Total milkfat and skim solid exports are expected to increase +4.1% in 3Q17 Y/Y, which is down -350bp vs. the prior quarter.
- September average USDA Grade AA butter prices of \$2.44/lb decreased -7.9% vs. the prior month and increased +22.2% vs. Sep16.



Specialty Crops: Current sugar, coffee, cotton and orange juice prices appear to have bottomed following periods of decline, while cocoa prices have been leveled off since April.



The September ICE sugar #16 average price of \$0.269/lb increased +7.3% vs. the prior month and decreased -3.8% vs. the prior year period.

Source: FactSet

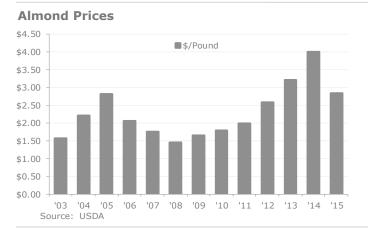
- The September ICE orange juice average price of \$1.50/lb increased +10.4% vs. the prior month and decreased -24.4% vs. the prior year period.
- The September cocoa average price of \$1,970/MT increased +1.2% vs. the prior month and decreased -30.8% vs. the prior year period.
- The September ICE sugar #11 average price of \$0.139/lb increased +0.9% vs. the prior month and decreased -34.6% vs. the prior year period.

Source: Factset

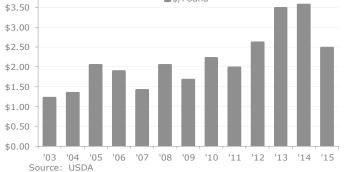
- The September average cotton price of \$0.70/lb increased +2.0% vs. the prior month and +2.4% vs. the prior year period
- The September average coffee price of \$1.33/lb decreased -1.5% vs. the prior month and decreased -12.8% vs. the prior year period.



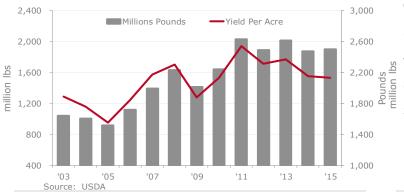
Specialty Crops: Growers anticipate improved yields in 2016 while keeping an eye on opportunities to improve both foreign and domestic shipments.



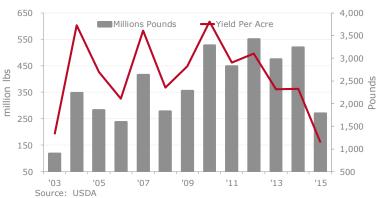




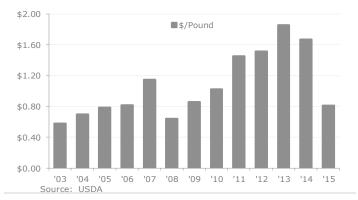
Almond Acres & Yield



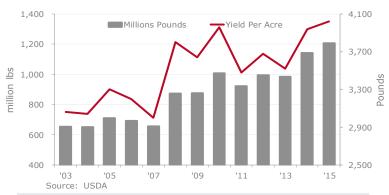
Pistachio Acres & Yield



Walnut Prices



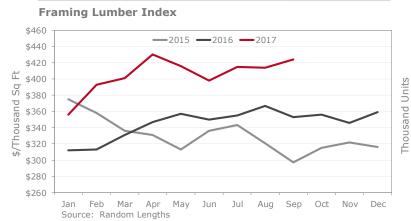
Walnut Acres & Yield



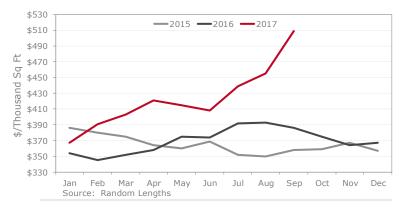
- The 2015 USDA average grower price for almonds of \$2.84/lb decreased -29.0% vs. the 2014 average price of \$4.00/lb.
- The 2015 total annual almond production of 1,900 million pounds increased +1.6% vs. the 2014 annual production of 1,870 million pounds. The 2015 average yield per acre of 2,130 pounds decreased -0.9% vs. the 2014 average of 2,370 pounds.
- The 2015 USDA average grower price for walnuts of \$0.81/lb decreased -51.5% vs. the 2014 average price of \$1.67/lb.
- The 2015 USDA average grower price for pistachios of \$2.48/lb decreased -30.5% vs. the 2014 average price of \$3.57/lb.
- The 2015 total annual pistachio production of 270mm pounds decreased -48.0% vs. the 2014 production of 519mm pounds. The 2015 average yield per acre of 1,160 pounds decreased -50.2% vs. the 2014 average of 2,330 pounds.
- The 2015 total annual walnut production of 1,206mm pounds increased +5.6% vs. the 2014 production of 1142mm pounds. The 2015 average yield per acre of 4,020 pounds increased +2.0% vs. the 2014 average of 3,940 pounds.



Forestry Products: Strength in housing starts and remodel activity continues to support demand for framing lumber and structural panel prices.

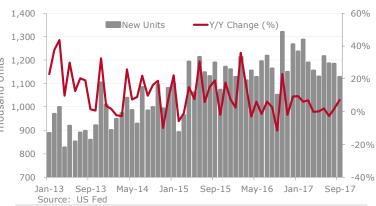






- The September Framing Lumber Composite Index of \$424/thousand sq ft increased +2.4% vs. the month prior and increased +20.1% vs. the prior year period.
- The September Structural Panel Composite Index of \$509/thousand sq ft increased +11.9% vs. the prior month and increased +31.9% vs. the prior year period.

U.S. Housing Starts



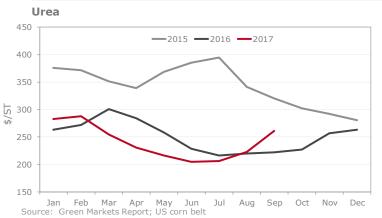
Repair & Remodel Expenditures (LTM total)

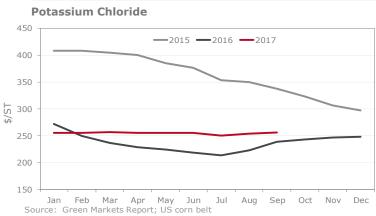


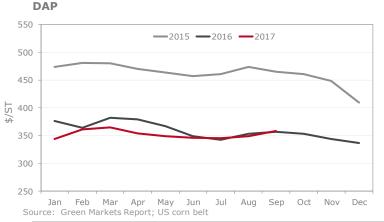
- The September U.S. Housing Starts of 1.13 million units decreased -4.7% vs. the prior month and increased +7.1% vs. the prior year period.
- The 3Q17 LTM repair and remodel total expenditure of \$309.7Bn increased +1.9% vs. the prior quarter and +6.4% vs. the prior year period.



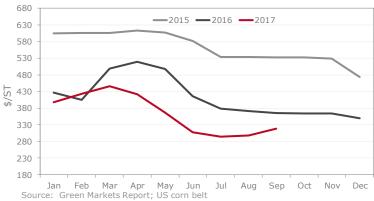
Crop Inputs: Fertilizer prices remain under pressure with higher than expected imports; all 4 fertilizers are near 2016 levels as Urea ticks higher.





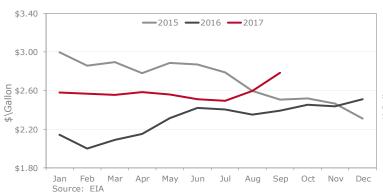




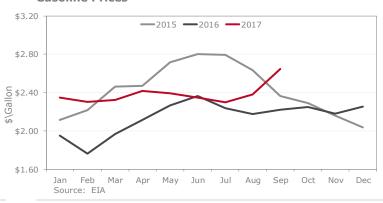


- The September US corn belt urea average price of \$261.0/ST increased +17.4% vs. the prior month and increased +17.7% vs. the prior year period.
- The September US corn belt DAP average price of \$358.0/ST increased +2.6% vs. the prior month and increased +0.4% vs. the prior year period.
- The September US corn belt potassium chloride average price of \$256.0/ST increased +0.9% vs. the prior month and increased +7.3% vs. the prior year period.
- The September US corn belt ammonia average price of \$319.0/ST increased +7.1% vs. the prior month and decreased -12.8% vs. the prior year period.





Gasoline Prices

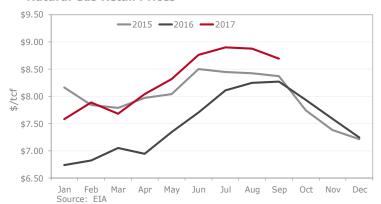


- The September average diesel fuel price of \$2.79/gal increased +7.3% vs. the prior month and increased +16.3% vs. the prior year period.
- The September average regular grade gasoline price of \$2.65/gal increased +11.1% vs. the prior month and increased +19.2% vs. the prior year period.

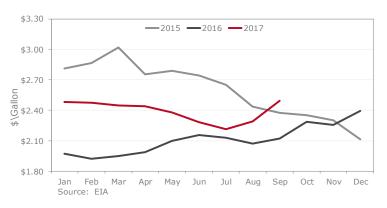


Energy and Labor: Global oil prices have kept energy prices in check, while we observe wage inflation gains in restaurants and supermarkets.

Natural Gas Retail Prices



Heating Oil Retail Prices

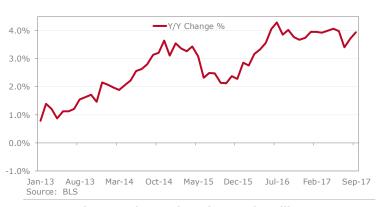


Commercial Electricity Prices



- The September average natural gas price of \$8.69/Mcf decreased -2.1% vs. the prior month and increased +5.1% vs. the prior year period.
- The September average heating oil price of \$2.49/gal increased +8.8% vs. the prior month and increased +17.5% vs. the prior year period.
- The September average electricity price of \$0.1073/kWh decreased -2.0% vs. the prior month and increased +0.3% vs. the prior year period.

Restaurant Hourly Earnings



Supermarket Hourly Earnings (3 Month Rolling Average)



Food Manufacturing Hourly Earnings



- The restaurant labor index increased +3.9% Y/Y in September, which was up +20bp vs. the prior month and down -10bp vs. the prior year period.
- The supermarket labor index increased +2.4% Y/Y in August, which was down -10bp vs. the prior month and up +330bp vs. the prior year period.
- The food manufacturing labor index increased +0.6% Y/Y
 in September, which was down -40bp vs. the prior month
 and down -310bp vs. the prior year period.



Food and Agribusiness Industry Advisors

Christopher Innes, CFA
Packaged Food, Restaurant and Food Retail
Sector Manager
Christopher.c.innes@wellsfargo.com
212-214-7823

Kevin Bergquist Forest Products Sector Manager bergquk@wellsfargo.com 503-886-4148

David Branch
Specialty and Non-Grain Crop Sector Manager
David.e.branch@wellsfargo.com
704-410-8997

Matt Dusi Specialty and Non-Grain Crop Sector Manager Matt.w.dusi@wellsfargo.com 559-203-2994

Scott Etzel Protein - Seafood Sector Manager etzel@wellsfargo.com 503-886-4164

Rob Fox Dairy Sector Manager Robert.g.fox@wellsfargo.com 312-845-9743

Tim Luginsland Grain & Oilseed Sector Manager <u>luginstr@wellsfargo.com</u> 913-234-2921

Lee Ann Pearce Specialty and Non-Grain Crop Sector Manager Leeann.pearce@wellsfargo.com

Matt Stommes
Protein - Poultry & Beef Sector Manager
<u>Matthew.j.stommes@wellsfargo.com</u>
612-316-3724

Lon Swanson Crop Inputs/Feed Sector Manager Lon.k.swanson@wellsfargo.com 913-234-2922 Michael Swanson, Ph.D. Chief Agriculture Economist Michael.j.swanson@wellsfargo.com 612-667-5136

Denise Cahill Industry Advisors Group Manager <u>cahilldl@wellsfargo.com</u> 559-622-3012

Karol Aure-Flynn Specialty Crops Analyst, Analyst Team Lead <u>Karol.aure-flynn@wellsfargo.com</u> 559-622-3045

Chris Eggerman Sector Analyst, Grains, Crop Inputs, Forest Products <u>Chris.eggerman@wellsfargo.com</u> 913-234-7702

Courtney Schmidt Sector Analyst, Protein, Dairy Courtney.b.schmidt@wellsfargo.com 361-574-5207

General disclosures

The views expressed are intended for Wells Fargo customers only. They present the opinions of the authors on prospective trends and related matters in food and agribusiness as of this date, and do not necessarily reflect the views of Wells Fargo & Co., its affiliates and subsidiaries. Opinions expressed are based on diverse sources that we believe to be reliable, though the information is not guaranteed and is subject to change without notice. This is not an offer to sell or the solicitation to buy or sell any security or foreign exchange product.